

Title (en)

METHOD OF INHIBITING ICE CRYSTAL GROWTH IN FROZEN FOODS AND COMPOSITIONS

Publication

EP 0300503 A3 19910724 (EN)

Application

EP 88111875 A 19880723

Priority

- US 7714287 A 19870723
- US 21853188 A 19880715

Abstract (en)

[origin: EP0300503A2] Ice crystal growth is inhibited in frozen food products by adding a partially delignified plant fiber, a hemicellulose B or mixtures thereof to the frozen food product.

IPC 1-7

A23L 3/36

IPC 8 full level

A23G 9/04 (2006.01); **A23G 9/32** (2006.01); **A23G 9/34** (2006.01); **A23G 9/42** (2006.01); **A23G 9/44** (2006.01); **A23G 9/52** (2006.01); **A23L 1/308** (2006.01); **A23L 3/37** (2006.01)

CPC (source: EP KR US)

A23G 9/00 (2013.01 - KR); **A23G 9/32** (2013.01 - EP US); **A23G 9/34** (2013.01 - EP US); **A23G 9/42** (2013.01 - EP US); **A23L 3/37** (2013.01 - EP US); **A23L 33/21** (2016.07 - EP US); **A23G 2200/06** (2013.01 - EP US); **Y10S 426/804** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0166824 A1 19860108 - WARNER LAMBERT CO [US]
- [A] US 4631196 A 19861223 - ZELLER CLIFFORD L [US]
- [A] EP 0190826 A2 19860813 - WARNER LAMBERT CO [US]
- [A] US 4649113 A 19870310 - GOULD JOHN M [US]
- [Y] DERWENT FILE SUPPLIERS JAPS, Patent Office of Japan, Tokyo, JP; & JP-A-61 100 167 (FUJI OIL CO.) 1986

Cited by

EP0507766A4; EP1369041A1; WO03103410A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0300503 A2 19890125; EP 0300503 A3 19910724; EP 0300503 B1 19941109; AT E113800 T1 19941115; CA 1331845 C 19940906; CN 1027488 C 19950125; CN 1031177 A 19890222; DE 3852066 D1 19941215; DK 145389 A 19890322; DK 145389 D0 19890322; FI 891369 A0 19890322; FI 891369 A 19890322; FI 90301 B 19931015; FI 90301 C 19940125; JP H02500485 A 19900222; KR 890701027 A 19891219; MX 166991 B 19930219; PT 88097 A 19890630; PT 88097 B 19950703; US 4954360 A 19900904; WO 8900815 A1 19890209

DOCDB simple family (application)

EP 88111875 A 19880723; AT 88111875 T 19880723; CA 572716 A 19880721; CN 88106156 A 19880723; DE 3852066 T 19880723; DK 145389 A 19890322; FI 891369 A 19890322; JP 50684388 A 19880720; KR 890700129 A 19890125; MX 1238988 A 19880722; PT 8809788 A 19880725; US 21853188 A 19880715; US 8802451 W 19880720